PATENT

Amendment dated July 17, 2007
Thought, Inc. Attorney Docket No.: 0036-023
Reply to Office Action of January 18, 2007
Serial No. 10/045,894

This listing of the claims with indicated amendments, deletions and cancellations and new claims will replace all prior version, and listings, of claims in the application.

LISTING OF THE CLAIMS

1.   (cancelled)

2.   (cancelled)

3.   (cancelled)

4.   (cancelled)

5.   (cancelled)

6.   (cancelled)

7.   (cancelled)

8.   (cancelled)

9.   (cancelled)

10.   (cancelled)

11.   (cancelled)

12.   (cancelled)

13.   (cancelled)

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14.   (cancelled)

15.   (cancelled)

16.   (cancelled)

17.   (cancelled)

18.   (cancelled)

19.   (cancelled)

20.   (cancelled)

21.   (cancelled)

22.   (cancelled)

23.   (cancelled)

24.   (cancelled)

25.   (cancelled)

26.   (cancelled)

27.   (cancelled)

28.   (new) A local or distributed computer system for creating or maintaining

transparent persistence to a permanent data source without the need for insertion of

post compilation byte code into data objects of an object model or post compilation

insertions of data objects into an object model or schema comprising:

a software implemented method that utilizes at least one software component

as a persistence manager, an API and a persistence layer for data source access to

provide transparent persistence of a member selected from the group consisting of a

complex data object, an object graph model and a portion of an object graph model,

wherein:

(i) the complex data object, the object graph model or the portion of an object

graph model is persisted as a CDOG model,

(ii) the system comprises a user interface, a working memory storage area

and at least one device for permanently storing information, and said system is

loaded with at least one portion of a computer software program that comprises at

least one user access interface, a programming object as a software component that

is designed for creating or maintaining transparent persistence of a member selected

from the group consisting of a data object, an object graph model and a portion of

an object graph model as a CDOG model, and

(iii) the system further comprises a transparent persistence listing of a

complex data object, an object graph model or a portion of an object graph model to

be persisted by a transparent persistence method of the system, and items in the

persistence listing are associated with a mapping layer set of tables or maps for

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objects and object attributes selected from the group consisting of relationships of

objects to each other, relationships of objects to at least one data a source, and

relationships of objects to an object graph,

software implemented methods for the persistence monitor to: (a) identify a

complex object, object graph, or portion of an object graph residing on the system

that is also associated with a persistence listing, (b) detect any transactions that

would require persistence of the complex object, object graph or portion of an

object graph, and (c) delegate persistence to a data source functions to a persistence

layer that handles persistence of such transactions to a permanent data source as a

persisted complex object, object graph or portion of an object graph.

29.   (new) A computer system according to claim 28, that does not require any

modifications to an object model by modifying a post processed set of objects or

object model to include additional persistent data objects or to include persistence

byte code in a data object of the object model in order to provide persistence for all

or a portion of the CDOG model.

30.   (new) A computer system according to claim 29, that provides persistence for

a CDOG model on a distributed network environment.

31.   (new) A computer system for creating or maintaining transparent persistence

to a permanent data source of a member selected from the group consisting of a

complex data object, an object graph model and a portion of an object graph model

when a user of the system is creating, maintaining, accessing or navigating complex

data objects as a CDOG model, comprising a software component as a loaded

software module that is a loaded transaction monitor for accessing a persistence

API, wherein the loaded transaction monitor is associated with a persistence listing,

an object application schema and data source schema mapping layer, and a runtime

persistence layer for data source access to maintain persistence when informed by a

loaded transaction monitor through a persistence API that persistence as a CDOG

model is needed for a complex data object, an object graph model, or a portion of

an object graph.

32.   (new) A computer system according to claim 31, further comprising an ejb

component as a loaded software module.

33.   (new) A computer system according to claim 31, that provides persistence

for a CDOG model on a distributed network environment as an application without

the need for server container managed persistence.

34.   (new) An object programming language software module, or set of modules, for creating or maintaining transparent persistence in a system as described in claim 28, wherein the transparent persistence is of a member selected from the group consisting of a data object, an object graph model and a portion of an object graph model when a user of the system is creating, maintaining, accessing or navigating complex data objects as a CDOG model.

35.   (new) An object programming language software module, or set of modules, for creating or maintaining transparent persistence in a system as described in claim 31, wherein the transparent persistence is of a member selected from the group consisting of a data object, an object graph model and a portion of an object graph model when a user of the system is creating, maintaining, accessing or navigating complex data objects as a CDOG model.

36.   (new) A software module, or set of modules, according to claim 34, for creating or maintaining transparent persistence of a member selected from the group consisting of a data object, an object graph model and a portion of an object graph

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model when a user of the system is creating, maintaining, accessing or navigating

complex data objects as a CDOG model, comprising software code for generating,

accessing, or maintaining a transaction monitor as a complex ebj object, a

persistence listing, or both.

37.   (new) A software module, or set of modules, according to claim 35, for

creating or maintaining transparent persistence of a member selected from the group

consisting of a data object, an object graph model and a portion of an object graph

model when a user of the system is creating, maintaining, accessing or navigating

complex data objects as a CDOG model, comprising software code for generating,

accessing, or maintaining a transaction monitor as a complex ejb object, a

persistence listing, or both.